LOOKBOOK 2021

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Project: *Matagarup Bridge*

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CHELTENHAM STATION CARPARK FAÇADE
CHELTENHAM, VICTORIA

ARCHITECT: COX ARCHITECTS

BUILDERS: S.J. HIGGINS

PRODUCT: PIC PERF

The three-level car park at Cheltenham Station needed to not only provide a safe, well-ventilated space for people to park their cars, but also deliver a stunning design for both commuters and residents nearby.

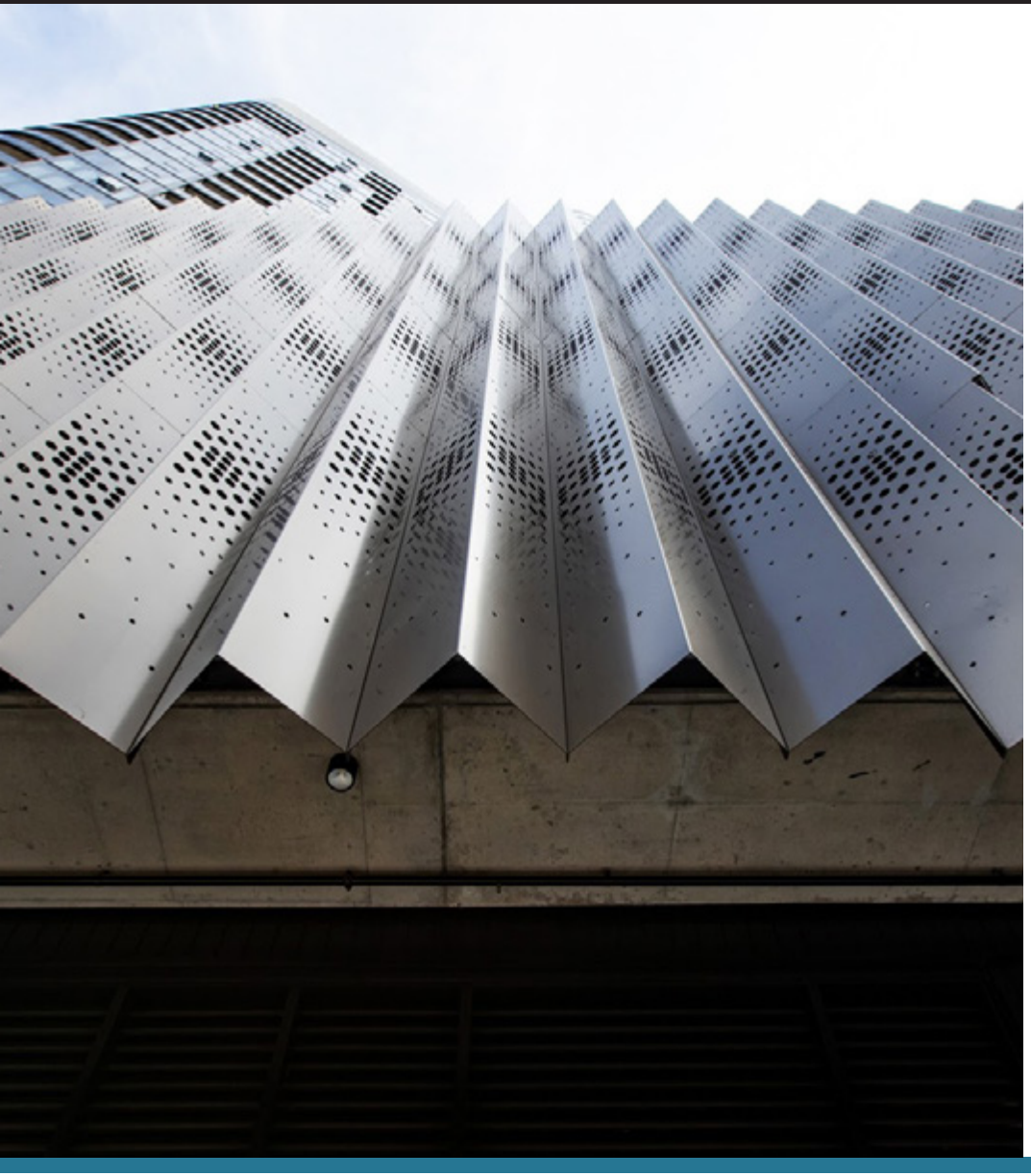
The result was a turnkey Pic Perf solution for a carpark façade using Aurora rails and Ingal crash barriers.

Using Pic Perf software, we mapped out an intricate tree branch impression using perforations that spanned throughout each level of the carpark. This design allows for a 50% open area for ventilation, improves driver safety and blocks car lights from nearby resident homes.

The project used less steelwork than originally planned and provided a stunning image that captures architectural intent, making it a construction highlight throughout Melbourne.

The Cheltenham Station has served the Melbourne community for over 140 years. To commemorate this gift to the region, the car park façade upgrade now has texture and design that can engage and delight every passerby.

HIGH SOCIETY RESIDENTIAL TOWER FAÇADE
BELCONNEN, ACT



ARCHITECT: FENDER KATSALIDIS

BUILDERS: GEOCON & RENROW STEEL

PRODUCT: LASER

Close to several parks, restaurants, residential areas and entertainment destinations, the High Society Residential Tower needed to be stunning, unique and luxurious.

The construction and design plans involved a 2,200 square metre, four-level carpark façade utilising folded aluminium and laser-cut panels. Development started in late 2019 with design, samples and negotiations around materials and timeline. The order for custom rolled raw material was placed in January of 2020 — and then the pandemic swept the nation.

Despite a variety of challenges, the timeline was met, this called for substantial organisational effort to reach stage scope KPIs.

Aluminium laser cut metal is a durable material that brings in natural light and airflow to a carpark while providing more visibility throughout the structure. This façade is a stand-out design that sets the bar high for the bustling business environment of Belconnen. It inspires both innovation and sustainability with satin bronze coating, wood-panelled beams and rippling folds that visually speak to the beating pulse of the region.

The new façade addresses airflow needs for the carpark, creating a comfortable and safe environment for drivers to park their vehicle, while keeping it cool during the hot summer months.

TOORAK ROAD LEVEL CROSSING SAFETY BARRIERS
TOORAK, VICTORIA

BUILDERS: GEOCON & RENROW STEEL

PRODUCT: MONOWILLS LINK AND PERFORATED SCREENS

We were contacted directly by builder John Holland to assist in the redesign, detail and manufacturing of the new Rail Elevated Crossing for a series of access and barrier solutions. By implementing a detailed plan and methodology, we created efficiencies across the scope of the project.

The project included a Monowills Link 2-rail safety barrier, perforated balustrade, ancillary ladders, laser-cut plates and grating.

We used Monowills Safety Barrier and Detraining Handrail, a functional project requirement, to meet the client's desire for an elevated external aesthetic.

With product optimisation, the correct barrier type was used to meet specification, any unnecessary fixing points or products removed, leaving pedestrians and employees the confidence to be on the railway safely.

FOREST LAKES SHOPPING CENTRE WALKWAY
THORNLIE, WEST AUSTRALIA

PRODUCT: WK4514 WALKWAY MESH

Originally constructed in 2000, the Forest Lakes Shopping Centre was looking to upgrade its walkway to reach the roof HVAC components.

The client opted for the WK4514 Walkway Mesh to facilitate a safe passageway to the roof. This included the standard nominal sheet size of 3,000mm with a width of 900mm and 5mm thickness. The client chose a standard-sized walkway to increase installation efficiency and cut down on overall project costs.

All grid walk walkway material is available in mild steel, hot-dipped galvanised steel or stainless steel upon request.

The mesh opening for WK 4514 is approximately 96mm long way of opening (LWO) and 32mm short way of opening (SWO). This configuration has a diamond diagonal look that gives expanded metal mesh its familiar shape. The size of the diamond opening determines the visibility through the walkway, which was a desirable factor for choosing this material for the client.

Expanded metal mesh is an effective way to save on construction costs and waste because the metal slits are both cut and expanded during production. This process produces no metal waste and saves energy.

SAN JOSE STATE UNIVERSITY PARKING FAÇADE
SAN JOSE, CALIFORNIA

ARCHITECT: WATRY DESIGN

BUILDERS: MCCARTHY BUILDING COMPANY & PACIFIC ERECTORS

PRODUCT: ATMOSPHERE AND PIC PERF

To celebrate school pride and showcase athletes from San Jose State University (SJSU), the four-level carpark façade revitalises the southern part of the campus and inspires sustainable, functional and architectural solutions.

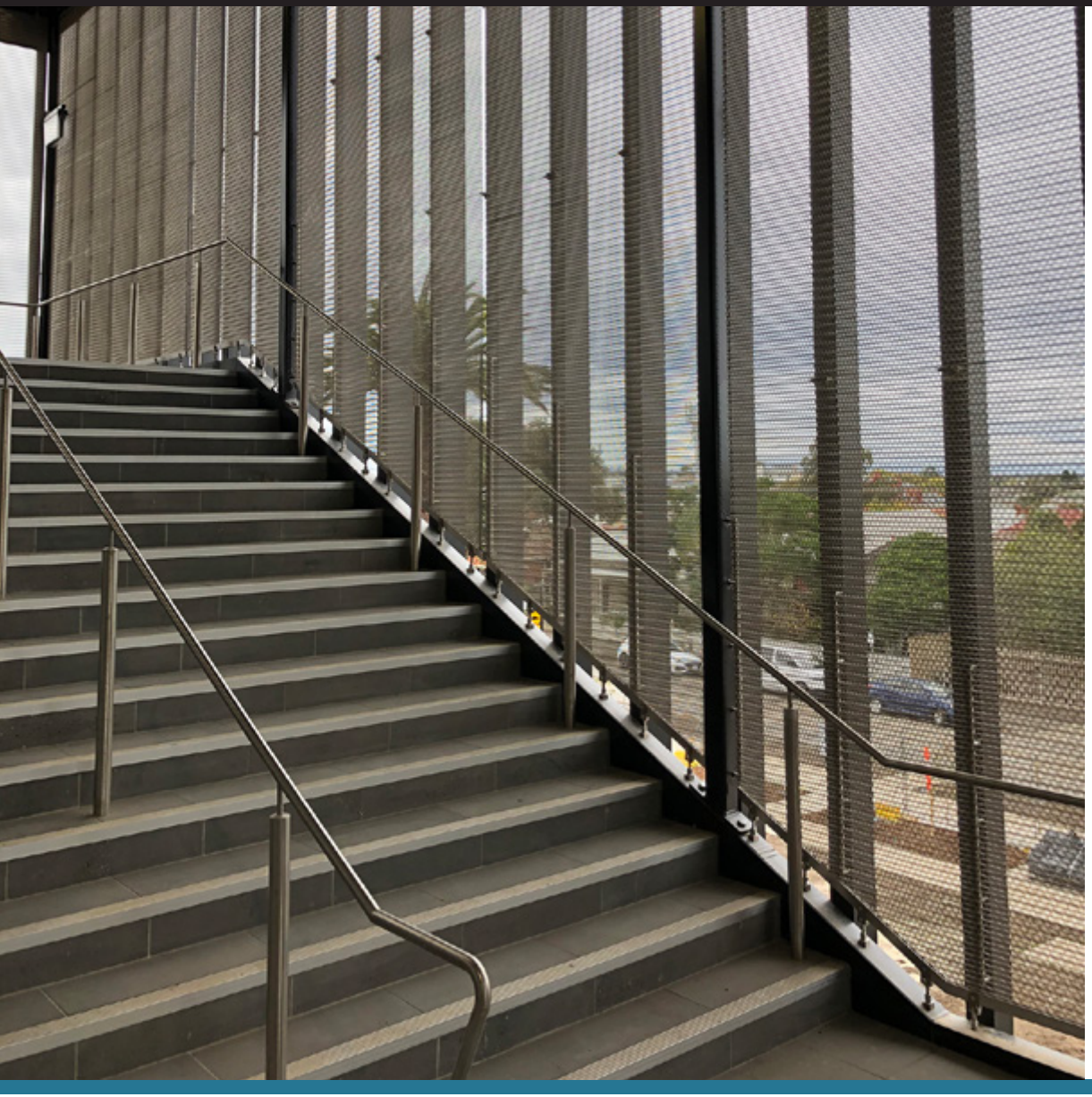
Inspiration for the façade came from celebrating SJSU's legendary track and field coach, Bud Winter, and the era of what they call "Speed City" athletes.

The blue and yellow design was built using Pic Perf software to articulate the story of athletes new and old, featuring Olympic-style graphics perforated into the aluminium powder-coated panels. The façade itself is suspended on stainless steel cables that connect from the top floor to fixed brackets on the ground level.

The façade system features a lightweight design that saved on labour and installation costs.

With 1,500 parking spaces and charging stations for electric vehicles, visitors and students can easily enjoy an event without the stress of wondering where to park their cars. The design features multi-coloured panels that give depth to the façade and has a quality of movement reminiscent of the athletes nearby.

MORELAND STATION FAÇADE
COBURG, VICTORIA



ARCHITECT: WOOD MARSH ARCHITECTS

BUILDERS: NORTHERN ALLIANCE JOINT VENTURE

PRODUCT: TRANSIT F281

As part of the Level Crossing Removal project of Victoria, the new Moreland Station façade aimed to improve the visual appeal of the area as well as accommodate passengers' natural flow through the station. The modern design utilises Transit F281 woven mesh fitted into turnbuckles across the entry and exit staircase towards the main station platforms.

This custom made material spans 767 square metres along the stairway. Woven mesh is a sheer material, so pedestrians can see through the veil and enjoy sunshade during their commute.

Woven mesh is ideal for outdoor façades such as this project because it is both flexible and durable against most weather conditions. The material is tough, strong and stable, so it can handle maximum impact resistance. It's easy to set up and construction allows for simple installation.

The façade offers a lift into modern design that has breathed new life into the Coburg, Moreland station. The public can marvel at the clearer sightlines and lighting, knowing the design was environmentally chosen and ethically implemented.

CONSOLIDATED RENT-A-CAR (CONRAC) FACILITY FAÇADE
LAX, LOS ANGELES, CALIFORNIA

PRODUCT: AURORA SYSTEM IN PROGRESS

As a prominent part of the overall Landside Access Modernisation Program for Los Angeles International Airport (LAX), the ConRAC is a convenient, centrally located car rental location near the 405 freeway, a major highway for the airport.

The aluminium perforated façade was designed using the Aurora system. It provides travellers inside with sunshade while still offering some visibility to the outdoors. LAX's Automated People Mover (APM) train system connects directly to the ConRAC facility to cut down on rental car shuttles, eliminating more than 3,200 daily shuttle trips.

Our façade is part of LAX's continued effort to make their airport more sustainable. The perforated façade cuts down on energy consumption to cool the inside of the building. Other green elements around the ConRAC facility include reclaimed water usage, a solar farm that generates over 8,400 megawatt-hours annually, and native drought-tolerant xeriscaping.

LOYOLA MARYMOUNT UNIVERSITY, (LMU) SCHOOL OF FILM AND TELEVISION FAÇADE
LOS ANGELES, CALIFORNIA

ARCHITECT: SKIDMORE, OWINGS & MERRILL

BUILDERS: W.E.O'NEIL & PLAS-TAL

PRODUCT: PERFORATED PANELS, AURORA ATTACHMENT SYSTEM

2021 saw a lot of changes, and when it comes to architectural design for workspaces, this was especially true. Instead of enclosed, stuffy offices, LMU's School of Film and Television sought a different way to work. Organised as a campus within a building, designers envisioned an open culture that allowed staff and students to enjoy the outdoors while protected from the harsh California sun.

The vision was to create an adaptable environment with circulation paths and large communal spaces separated with perimeter glass, windows and a perforated metal shield.

As a white-box project that featured a four-story academic building, we could accommodate a unique design that served both style and function. The façade needed to flow alongside the University's existing campus palette while considering the art and film students inside.

Perforated panels fold in and out across the face of the building, connected using an Aurora attachment system that suspends the façade seemingly in mid-air. Balancing the light and the acoustics of the building, our distinctive structure speaks to the multi-level creative flow of the students and staff inside.

BROWNSVILLE PUBLIC UTILITY BOARD (BPUB) FAÇADE
BROWNSVILLE, TEXAS

PRODUCT: AURORA SYSTEM

The Brownsville Public Utility Board (BPUB) has played an important role in the city of Brownsville, Texas since 1960. We were tapped to provide a functional upgrade to its façade.

The Aurora system enabled a 1,145.3 square-metre Contour panel area, 3-millimetre (mm) perforated aluminium panels with 32mm diameter holes at 54mm centres. We used EB brackets to secure the facade in place with the frame.

Aurora allowed for exact engineering design calculations and shop drawing preparation. The system is the only one on the market that is fully customisable to meet any specific requirements and integrations.

The result was an intricate custom perforated design. We used the Interpon D2525 Powder-coat system and 6mm aluminium top hats of varying sizes to create a uniquely creative façade. To help with the façade's durability against the Texas elements, we chose to use Custom Aurora extrusion anodized rails coated in a protective oxide layer made by an electrolytic process. This coating on the rails, coupled with the white powder-coat on the panels, will help keep the façade looking like new.

BENDIGO TAFE HEALTH & COMMUNITY CENTRE OF EXCELLENCE FAÇADE
BENDIGO, VICTORIA

ARCHITECT: ARCHITECTUS

PRODUCT: PIC PERF

The legend of Waa the Crow was regarded as one of two moiety ancestors for the Kulin nation. Waa represents ancient wisdom and knowledge, and was the guiding star for the Bendigo TAFE façade.

The façade is a multi-story Pic Perf design by Mandy Nicholson, a Ngurai Illam Wurrung, Wurundjeri, and Dja Dja Wurrung artist. Along the face of the building are intricate patterns depicting the Dja Dja Wurrung people's passage through time and their continued connection to nature.

Pic Perf designers developed images of an intricate drawing surrounding a mandala at the centre point of the face, while human figures along the lower portion of the façade seem to look up in awe of Waa. The images blanket across white perforated metal panels tucked behind the building's trim.

It was important to honour the artwork and the team who put the project together so that awareness and knowledge of Dja Dja Wurrung would perforate through the Bendigo City campus.

The Dja Dja Wurrung Clan Aboriginal Corporation worked in partnership with the Djandak design group to create a building that signifies the knowledge keeper of the Dja Dja Wurrung people.

MATAGARUP BRIDGE STAIR TREADS
EAST PERTH, WESTERN AUSTRALIA

ARCHITECT: DENTON CORKER MARSHALL

PRODUCT: ACCESS - STAIR TREADS

Looking at the Matagarup Bridge, you can imagine two swans colliding or embracing each other atop the glass stage of the Swan River. The civic landmark makes a statement for the city, the river and the nearby stadium.

As part of the larger pedestrian bridge, we developed stair treads for all to scale the side of the bridge safely. The stair offers slip resistance with every step while remaining prominent and visible, so sight-seekers can see each stair and step with confidence.

The welded treads were manufactured with banded ends to be the same colour as the rest of the bridge design, ensuring a seamless configuration. Every stair was developed with the pedestrian in mind and in compliance with Australian Standards.

When you visit the Matagarup Bridge, you'll slide past the beams and reach the pinnacle of the climb at the SkyView Deck. The open-air platform reaches 72 metres above the always sparkling Swan River and offers a dazzling view.

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